

MECHANICAL/PLUMBING SYMBOL LEGEND					
(ALL SYMBOLS MAY NOT BE USED)					
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DOMESTIC COLD WATER PIPE		BALL VALVE	ABBREVIATIONS	
	DOMESTIC HOT WATER PIPE		BUTTERFLY VALVE		
	DOMESTIC HOT WATER RETURN PIPE		GLOBE VALVE	AC	AIR CONDITIONER
	NATURAL GAS PIPE		GATE VALVE	A.F.F.	ABOVE FINISHED FLOOR
	SANITARY VENT PIPE		DRAIN VALVE	BD	BALANCING DAMPER
	SANITARY PIPE		MANUAL AIR VENT.	BFP	BACK FLOW PREVENTER
	DUCT SMOKE DETECTOR		GRISWOLD FLOW CONTROL VALVE	CFM	CUBIC FEET PER MIN
	RELAY COIL		TWO-WAY CONTROL VALVE	CO	CLEANOUT
	THERMOSTAT		PNEUMATIC BYPASS VALVE	COTG	CLEANOUT TO GRADE
	TEMPERATURE SENSOR		TRIPLE DUTY VALVE	CW	COLD WATER
	KEYED NOTE DESIGNATION		CHECK VALVE	DCO	DOUBLE CLEANOUT
	EXHAUST FAN		GAUGE COCK	DF	DRINKING FOUNTAIN
	SUPPLY DIFFUSER		BALANCING VALVE	D-1	DIFFUSER TYPE
	RETURN GRILL		GAS COCK	ESP	EXT STATIC PRESS
	ELECTRIC THERMOSTAT		GAS PRESSURE REGULATOR	EX	EXHAUST GRILL
	UNION		GAS SOLENOID VALVE W/HI-LO FIRE	EXT, EXIST	EXISTING
	BALANCING OR PLUG COCK		RELIEF VALVE	FCO	FLOOR CLEANOUT
	RISE IN PIPING		PETE'S PLUG	FD	FLOOR DRAIN
	DROP IN PIPING		THERMOMETER W/WELL	FS	FLOOR SINK
	VALVE IN RISE OR DROP		PADDLE TYPE FLOW SWITCH	FPH	FREEZE PROOF HYDRANT
	DIFFUSER SYMBOL COOLING/HEATING AIRFLOW		DIFFERENTIAL PRESSURE FLOW SWITCH	FHB	FREEZE PROOF HOSE BIBB
			DIFFERENTIAL PRESSURE SENSOR	F-1	FURNACE TYPE
			SENSOR WELL	GPM	GALLONS PER MIN
			FLEXIBLE CONNECTOR	HB	HOSE BIBB
			STRAINER	HW	HOT WATER
			MALE HOSE CONNECTOR	LAV	LAVATORY
			PIPING REDUCER	NO.	NUMBER
			PIPE ANCHOR	OSA	OUTSIDE AIR
			PIPE GUIDE	PSI	POUNDS PER SQ IN
			PIPE EXPANSION LOOP	RG	RETURN GRILL
			EXPANSION JOINT	RM	ROOM
			UNION	TYP	TYPICAL
			FLOW ARROW	UH	UNIT HEATER
			TEE CONNECTION	UNO	UNLESS NOTED OTHERWISE
			NEW TO EXISTING CONNECTION	UR	URINAL

Project General Notes
Project General Notes

- A. ALL WORK SHALL BE COMPLETED IN FULL COMPLIANCE WITH THE 2009 UPC, 2009 UMC, 2009 IECC, NFPA AND ALL LOCAL CODES AND ORDINANCES.

B. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE LAY OUT AND INSTALLATION OF THE PLUMBING SYSTEMS INCLUDING ALL COORDINATION WITH NEW AND EXISTING SERVICES MECHANICAL EQUIPMENT, DUCTWORK AND ELECTRICAL EQUIPMENT.

C. CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL COORDINATION OF OUTAGES WITH BOTH THE OWNER AND UTILITY COMPANIES, FOR UTILITY CONNECTIONS.

D. CONTRACTOR SHALL VERIFY INVERTS BEFORE ROUTING ANY PIPING.

E. WASTE PIPING SHALL BE PVC OR CAST IRON. VENT PIPING MAY BE PVC PIPE OR CAST IRON ABOVE AND BELOW FLOOR, PER UPC LIMITATIONS, AND CITY CODES.

F. ALL WATER PIPING SHALL BE TYPE M COPPER ABOVE FLOOR AND TYPE L SOFT COPPER BELOW FLOOR OR CROSS LINKED POLYETHYLENE (AQUAPEX) TUBING MEETING ASTM F87-99A ABOVE AND BELOW FLOOR.

G. NATURAL GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL ABOVE GRADE AND SHALL BE EITHER PROTECTED SCH 40 BLACK STEEL WRAPPED OR SDR-11 POLYETHENE BELOW GRADE.

H. SEE EQUIPMENT SCHEDULE FOR EQUIPMENT TYPES AND SIZES. MINIMUM BURY DEPTH FOR WATER IS 4' AND 2' FOR GAS.

I. ROUTE PIPING AS NEARLY AS POSSIBLE TO ROUTES INDICATED ON PLANS. CONTRACTOR IS FREE TO MAKE MINOR CHANGES IN ROUTING TO ACCOMMODATE CONDITIONS.

J. CONTRACTOR RESPONSIBLE FOR ALL REQUIRED TRANSITIONS, OFFSETS MINOR RELOCATIONS, AND ALL ASSOCIATED FITTINGS

K. CONTRACTOR SHALL INSTALL A COMPLETE OPERATING SYSTEM, INCLUDING REFRIGERANT PIPING, EQUIPMENT, CONTROLS, AND CONDENSATE DRAIN TO APPROVED INDIRECT WASTE.

L. ANY LINES ENCOUNTERED WHICH MAY INTERFERE WITH NEW CONSTRUCTION SHALL BE RELOCATED IF ACTIVE AND REMOVED IF INACTIVE.

M. ALL WATER PIPING LOCATED IN EXTERIOR WALLS OF THE BUILDING SHALL BE INSULATED WITH 1/2" INSULATION AND BE LOCATED ON BUILDING INTERIOR SIDE OF INSULATION.

N. ALL HW/CW, P-TRAPS AT HANDICAPPED LAVATORIES SHALL BE INSULATED.

O. CONTRACTOR SHALL PROVIDE 12" RISERS, CAPPED AT EACH FIXTURE FOR SHOCK ABSORPTION OR A SHOCK ABSORBER UNIT FOR THE SYSTEM.

P. PROVIDE WALL CLEAN OUTS AND SHUT OFF VALVES AT ALL SINKS AND WALL MOUNTED URINALS.

Q. PROVIDE ESCUTCHEONS AT ALL PIPE PENETRATIONS OF WALLS AND FLOORS.
- R. PROVIDE SHUT-OFF VALVES AT PLUMBING RISES.

S. PROVIDE GAS COCKS AND FLEXIBLE CONNECTIONS AT EACH GAS OUTLET OR APPLIANCE.

T. MECHANICAL AND PLUMBING EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

U. SANITARY VENT TERMINATIONS SHALL BE A MINIMUM DISTANCE OF 10' HORIZONTALLY OR 3' ABOVE ANY BUILDING OPENING OR AIR INTAKE.

V. DUCTWORK SHALL BE FABRICATED AND INSTALLED PER SMACNA STANDARDS, AND UMC STANDARDS.

W. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL AND ARCHITECTURAL TO DETERMINE FINAL DIFFUSERS LOCATIONS.

X. INSULATE SUPPLY DUCTWORK PER TABLE THIS SHEET. WITH FOIL FACED EXTERNAL DUCT WRAP. PROVIDE ALUMINUM ROLL JACKETING MEETING ASTM B-206, H-14 TEMPER, .016" THICKNESS FOR EXTERNAL DUCT.

Y. DUCT DIMENSIONS ARE CLEAR INSIDE.

Z. INSTALL TURNING VANES IN RECTANGULAR ELBOWS.

AA. ALL REGISTERS AND DIFFUSERS SHALL HAVE DAMPERS OR EXTRACTORS FOR AIR BALANCING.

BB. INSTALL SPLITTERS AT BRANCH CONNECTIONS.

CC. CONTRACTOR SHALL HAVE INDEPENDENT TEST AND BALANCE CONTRACTOR BALANCE AIR FLOWS PER DRAWINGS AND ADJUST ALL TEMPERATURE AND CONTROL DEVICES. MECHANICAL CONTRACTOR SHALL TEST RUN SYSTEM FOR A PERIOD OF 8 HRS., VERIFIED BY GENERAL CONTRACTOR, BEFORE GIVING NOTICE OF COMPLETION OF WORK.

DD. CONTRACTOR SHALL INSTALL A PRESSURE REGULATOR AT THE INCOMING WATER SERVICE IF SITE WATER PRESSURE EXCEEDS 80 P.S.I. REGULATOR SHALL MATCH LINE SIZE.

FF. CONTRACTOR SHALL PROVIDE ACCESS PANELS OF APPROPRIATE SIZE FOR ALL INACCESSIBLE REMOTE EQUIPMENT.

GG. CONTRACTOR SHALL NOT MODIFY ANY STRUCTURAL MEMBERS SUCH AS BEAMS, COLUMNS, TRUSSES, ETC.

HH. SEE ARCHITECTURAL DRAWINGS FOR ROOF DRAINS.

II. ALL PIPING AND DUCTWORK THAT PENETRATES A FIRE RATED WALL SHALL BE SEALED WITH APPROVED FIRE STOPPING TO RESTORE THE FIRE RATING AND MAKE WEATHER TIGHT AS REQUIRED.

MINIMUM DUCT INSULATION	MINIMUM PIPE INSULATION	SEISMIC RESTRAINT FOR WATER HEATERS.
BASED ON: INTERNATIONAL ENERGY CONSERVATION CODE 2009, SECTION 803.2.8	BASED ON: INTERNATIONAL ENERGY CONSERVATION CODE 2009, SECTIONS 504.4 AND 504.5.	BASED ON: UNIFORM MECHANICAL CODE SECTION 508.2.
DUCT AND PLENUM INSULATION AND SEALING: ALL SUPPLY AND RETURN DUCTS AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-6 INSULATION WHEN LOCATED IN UNCONDITIONED SPACES AND A MINIMUM OF R-8 INSULATION WHEN LOCATED OUTSIDE THE BUILDING. WHEN LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED OR EXEMPT SPACES BY A MINIMUM OF R-8 INSULATION. EXCEPTIONS: 1. WHEN LOCATED WITHIN EQUIPMENT. 2. WHEN THE DESIGN TEMPERATURE DIFFERENCE BETWEEN THE INTERIOR AND EXTERIOR OF THE DUCT OR PLENUM DOES NOT EXCEED 15°F (8°C).	FOR AUTOMATIC-CIRCULATING HOT WATER SYSTEMS, PIPING SHALL BE INSULATED WITH 1" OF INSULATION HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH/HXFT2X°F. THE FIRST 8' OF PIPING IN NONCIRCULATING SYSTEMS SERVED BY EQUIPMENT WITHOUT INTEGRAL HEAT TRAPS SHALL BE INSULATED WITH 0.5" OF MATERIAL HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH/HXFT2X°F.	IN SEISMIC DESIGN CATEGORIES C,D,E, AND F, WATER HEATERS SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION. STRAPPING SHALL BE AT POINTS WITHIN THE UPPER ONE-THIRD AND LOWER ONE-THIRD OF ITS VERTICAL DIMENSIONS. AT THE LOWER POINT, A DISTANCE OF NOT LESS THAN 4" SHALL BE MAINTAINED ABOVE THE CONTROLS WITH THE STRAPPING.
	MINIMUM PIPE INSULATION ^a	TEMPERATURE AND HOT WATER SYSTEM CONTROLS
	BASED ON: INTERNATIONAL ENERGY CONSERVATION CODE, SECTION 803.2.8	BASED ON: IECC 2009 CODE SECTIONS 504.3 AND 504.6
	NOMINAL PIPE DIAMETER	SERVICE WATER-HEATING EQUIPMENT SHALL BE PROVIDED WITH CONTROLS TO ALLOW A SET POINT OF 110° F FOR EQUIPMENT SERVING DWELLING UNITS AND 90° F FOR EQUIPMENT SERVING OTHER OCCUPANCIES. THE OUTLET TEMPERATURE OF LAVATORIES IN PUBLIC FACILITY REST ROOMS SHALL BE LIMITED TO 110° F. AUTOMATIC - CIRCULATING HOT WATER SYSTEM PUMPS OR HEAT TRACE SHALL BE ARRANGED TO BE CONVENIENTLY TURNED OFF AUTOMATICALLY OR MANUALLY WHEN THE HOT WATER SYSTEM IS NOT IN OPERATION.
	FLUID	
	Steam	
	Hot Water	
	Chilled water, brine, or Refrigerant	

a. Based on insulation having a conductivity (k) not exceeding 0.27 Btu per inch/hr ft2 °F

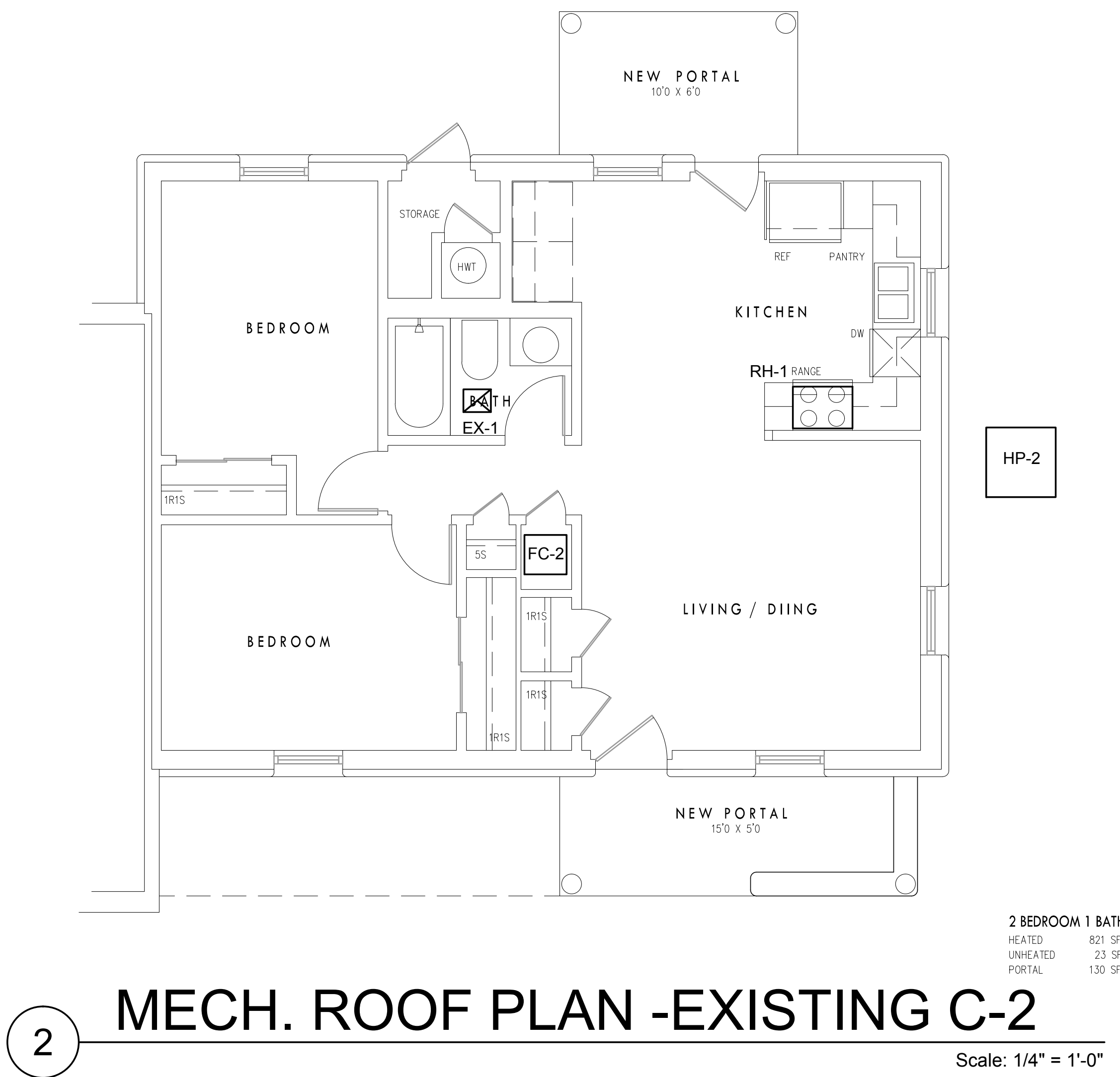
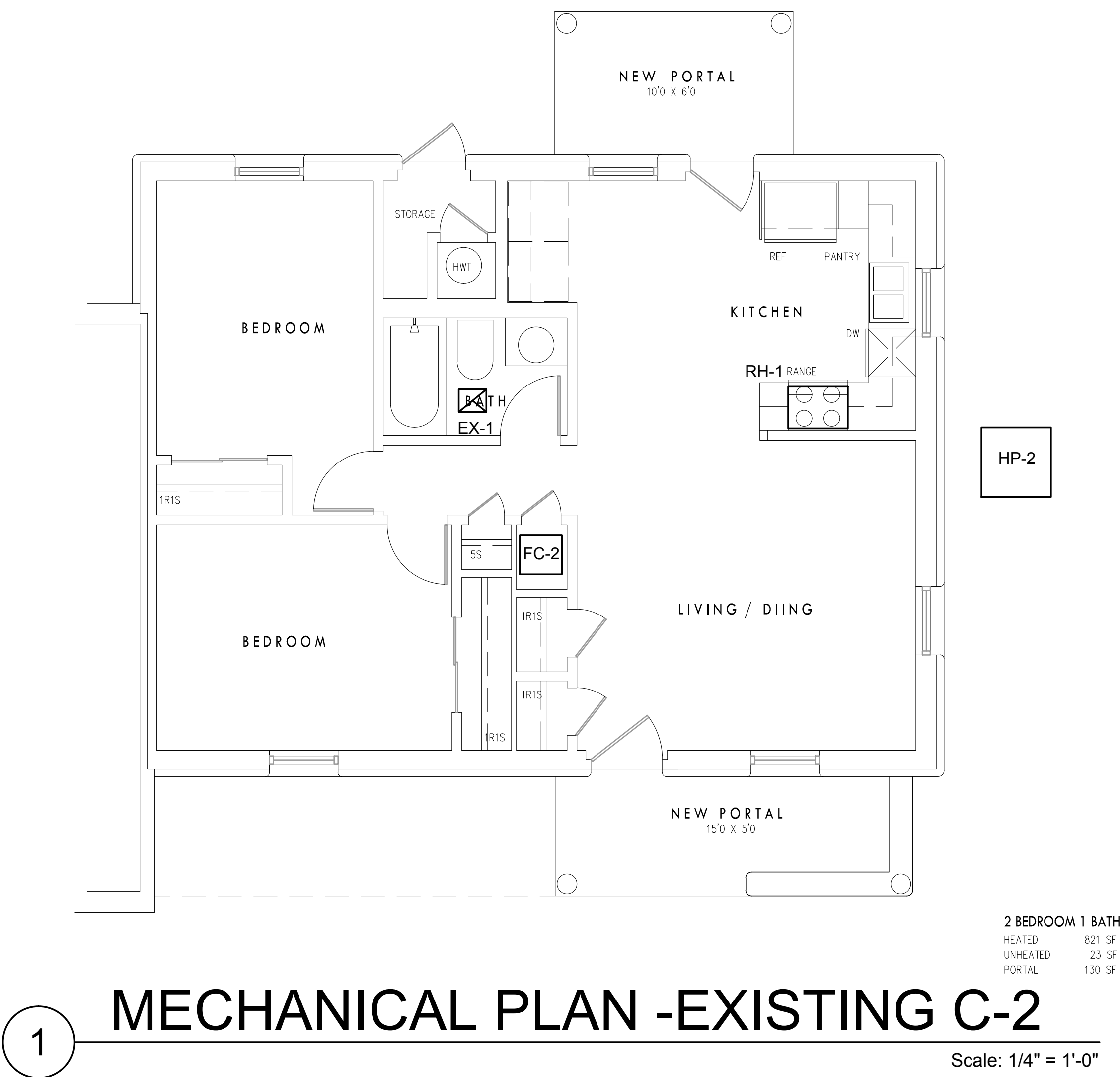
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MECHANICAL
NOTES &
LEGEND



General Notes

- A. SEE SHEET M-001 A FOR GENERAL MECHANICAL NOTES AND LEGEND .
- B. SEE EQUIPMENT SCHEDULE ON SHEETS M-601 FOR EQUIPMENT SPECIFICATIONS.
- C. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS .
- D. COORDINATE ALL THERMOSTAT LOCATIONS WITH ARCHITECT/OWNER.

Keyed Notes

- 1. XXXX.



Legend

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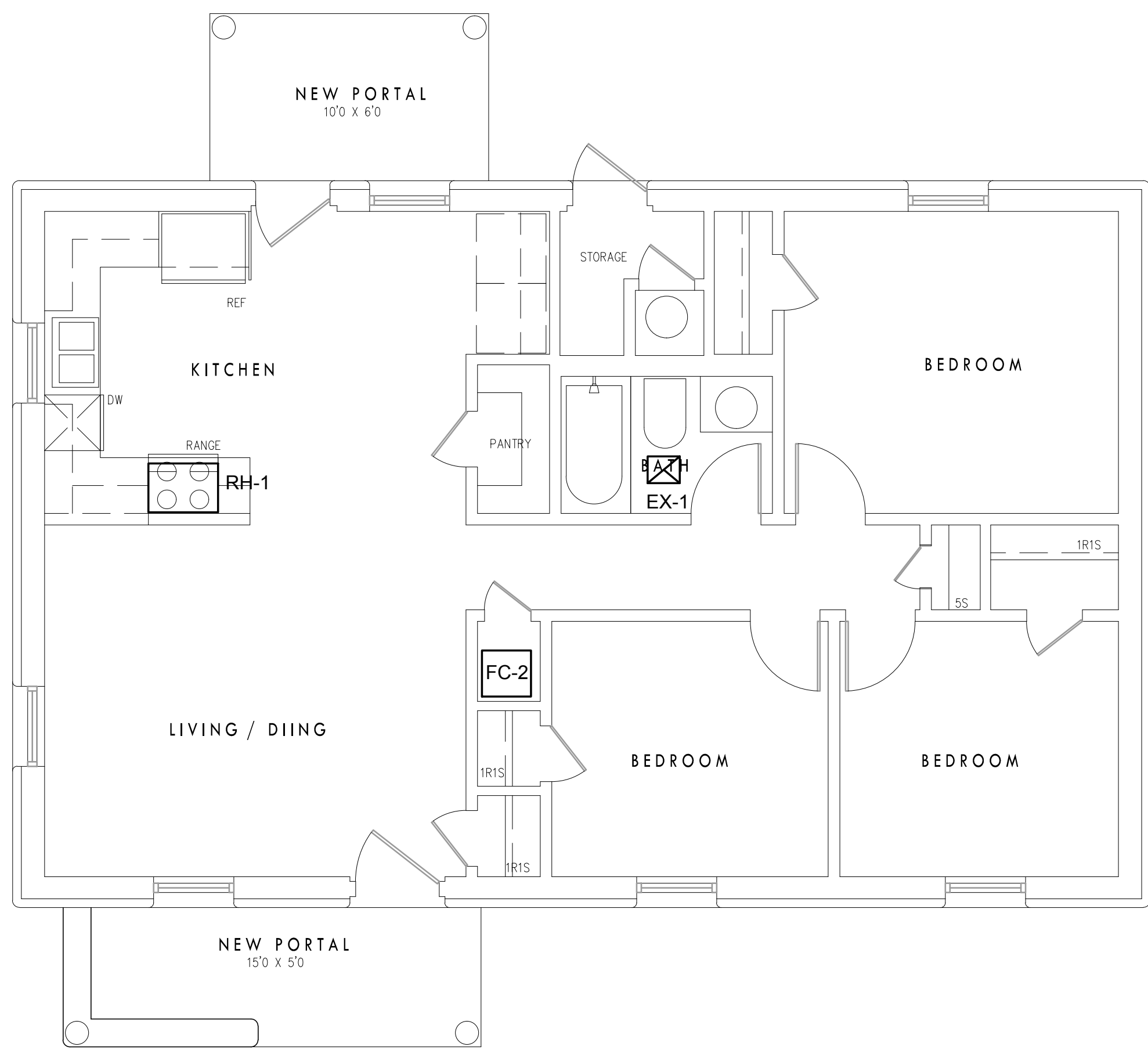
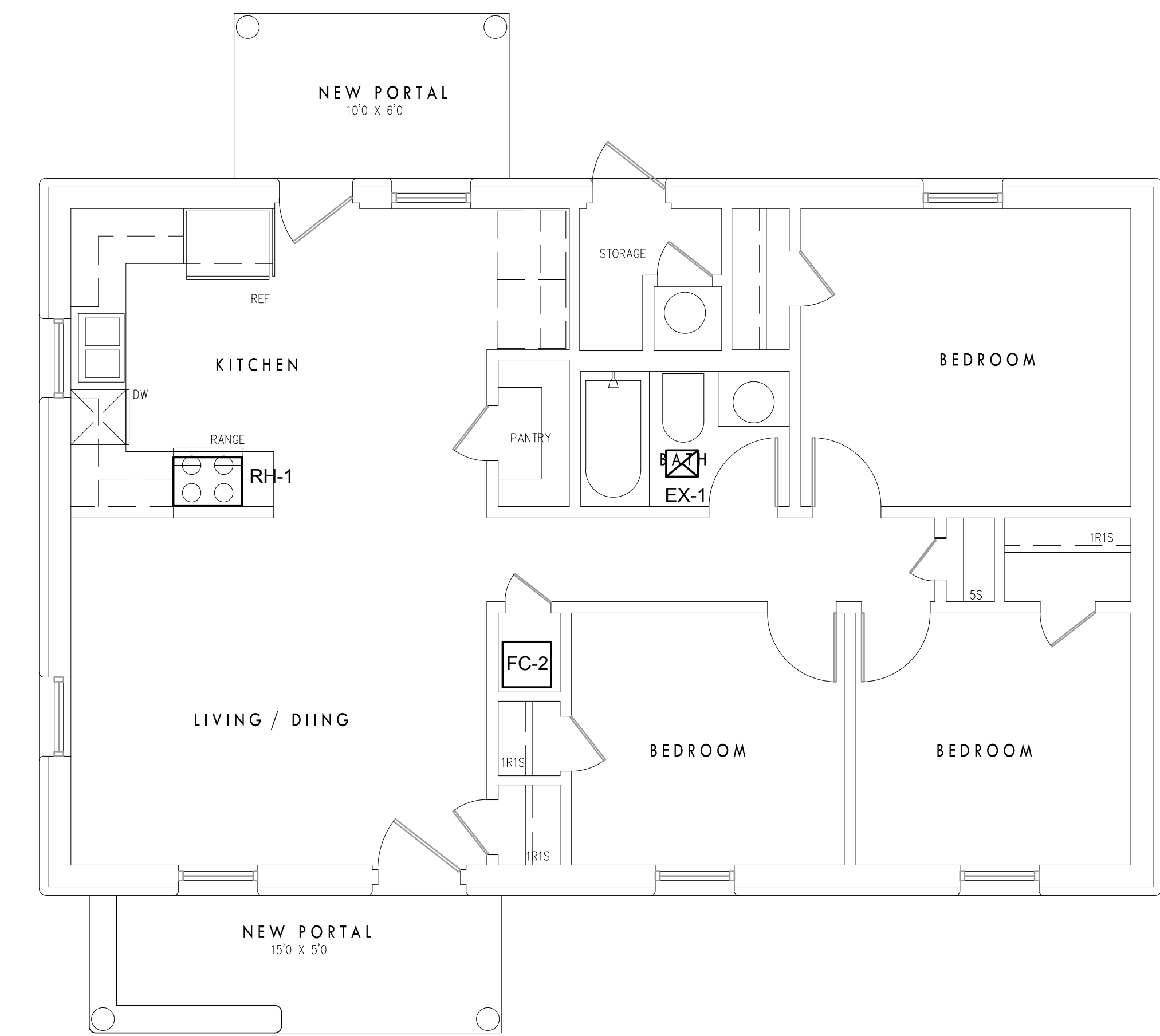
MECHANICAL
PLANS
C-2

SHEET:

M-101

DATE: 6.17.13
REVISION:

FILE NAME: Cerro Gordo



General Notes

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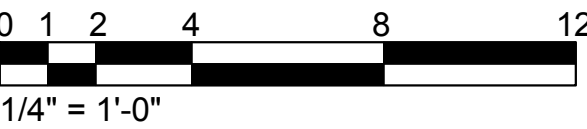
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Keyed Notes

1. -.



Legend

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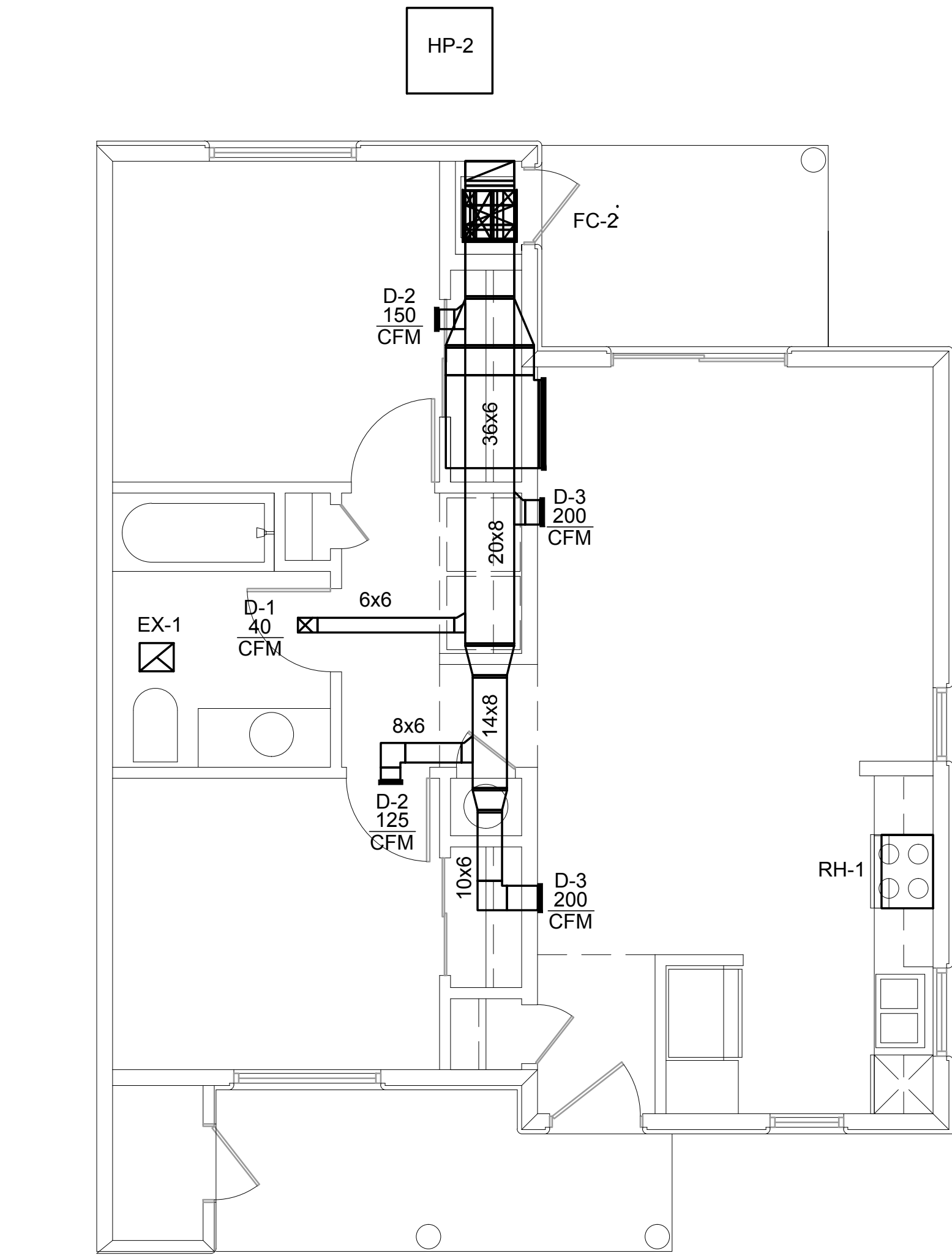
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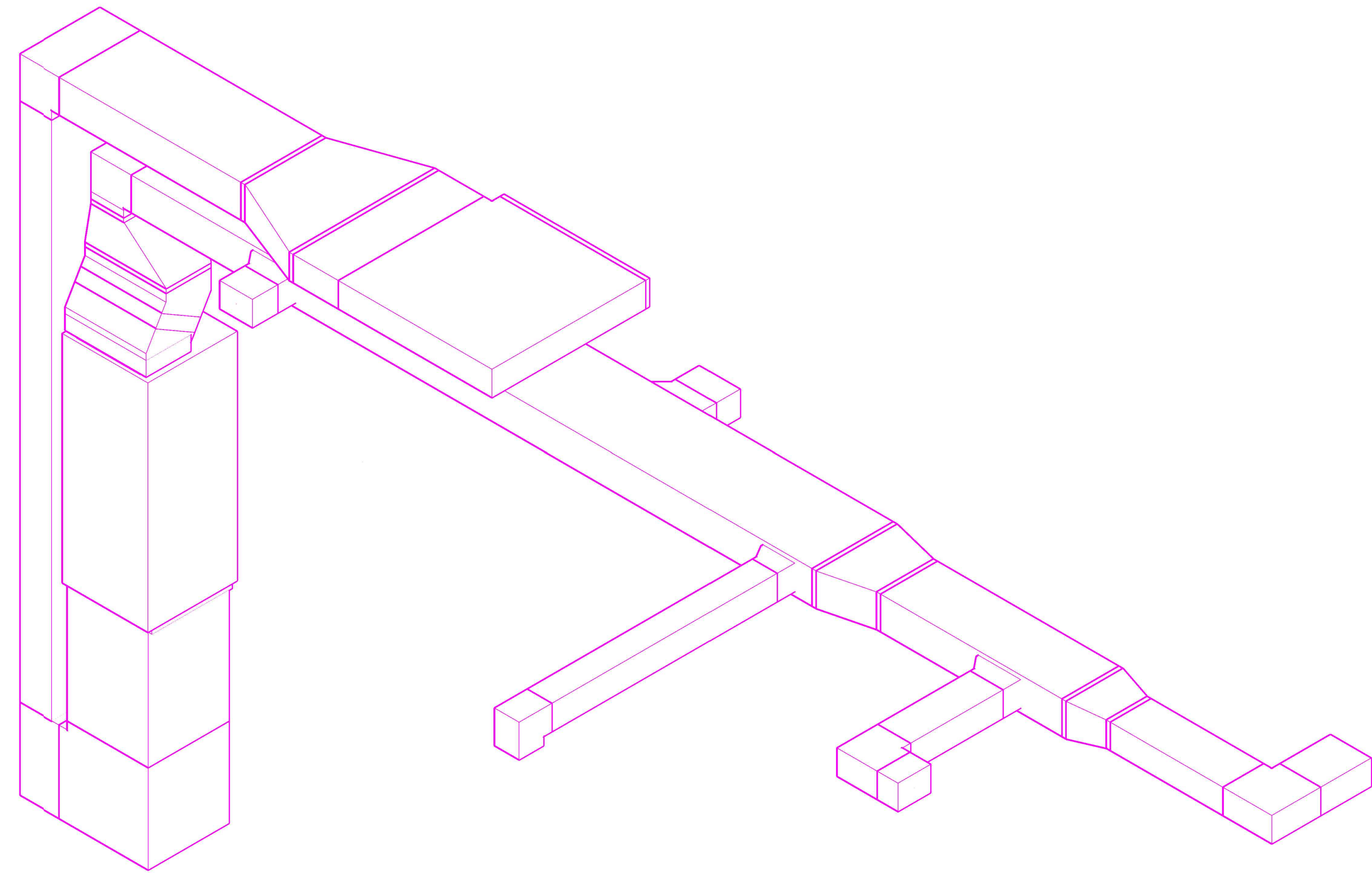
MECHANICAL
PLANS
C-3

SHEET:

M-102



1 MECHANICAL PLAN -C-A
Scale: 1/4" = 1'-0"



2 HEAT PUMP/DUCT DETAIL
Scale: 1/4" = 1'-0"



○ Keyed Notes
1. -.

- General Notes
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 - C. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS .
 - D. COORDINATE ALL THERMOSTAT LOCATIONS WITH ARCHITECT/OWNER.

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MECHANICAL
PLANS
C-A

SHEET:

M-103

- Abstract**

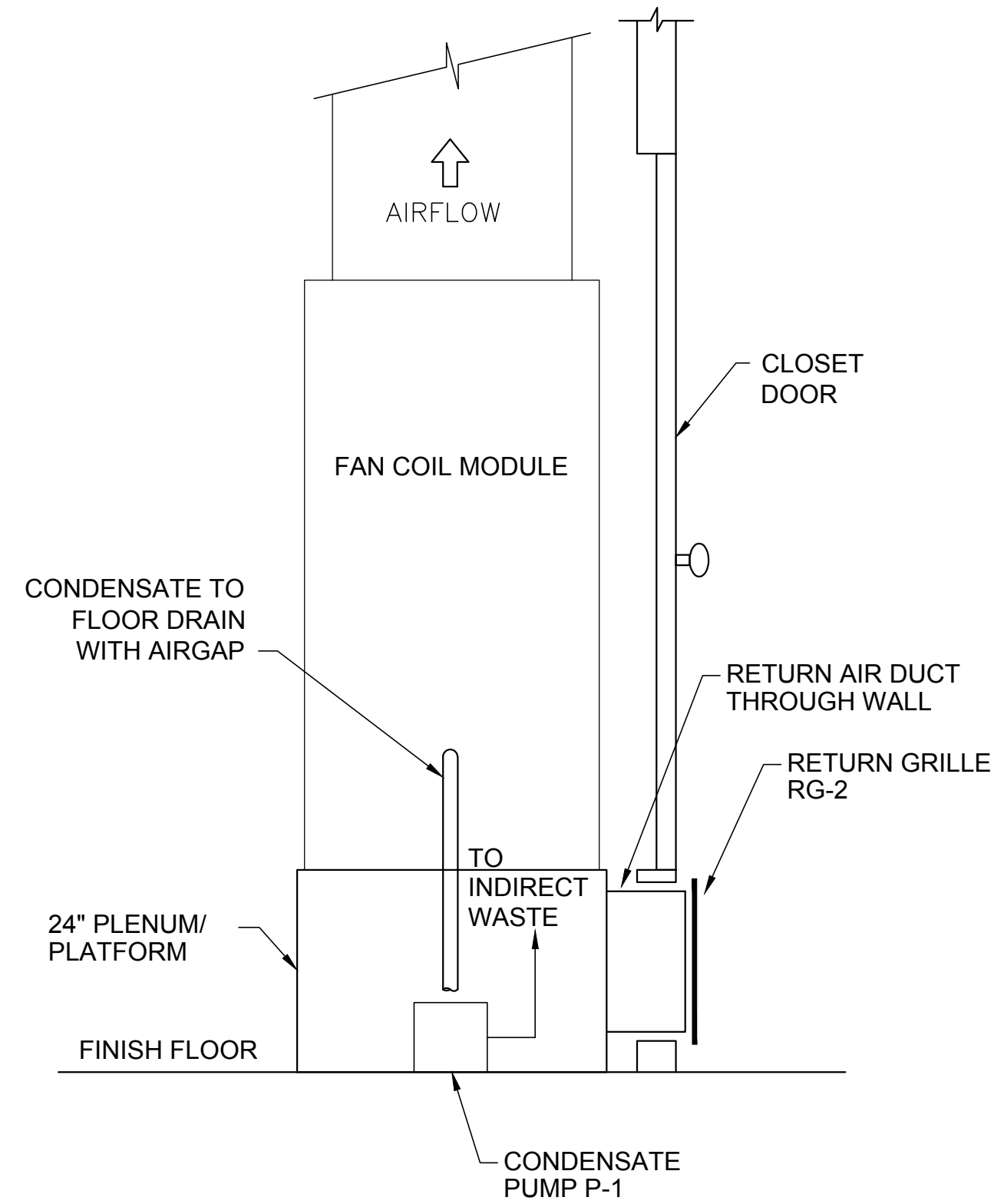
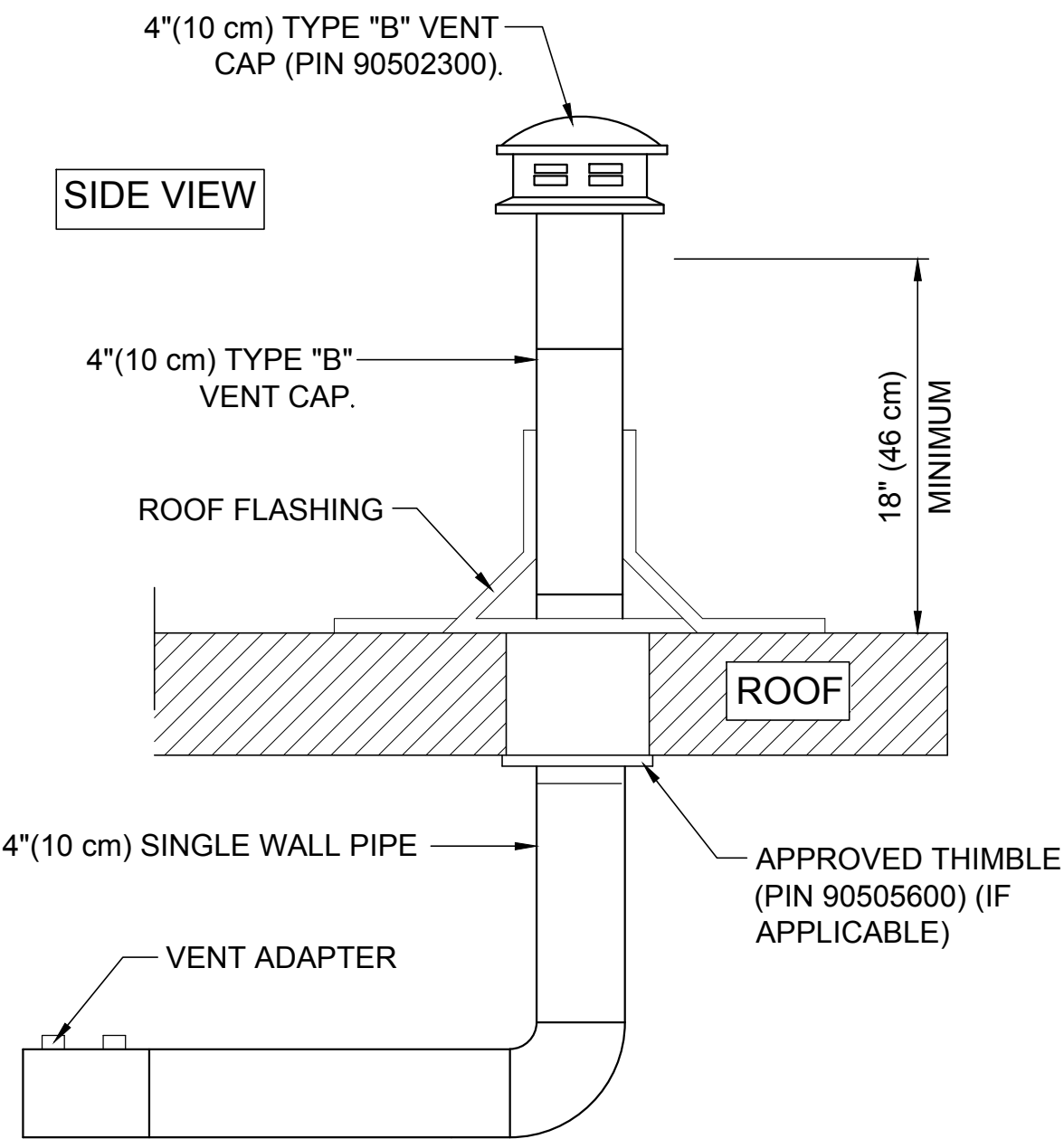
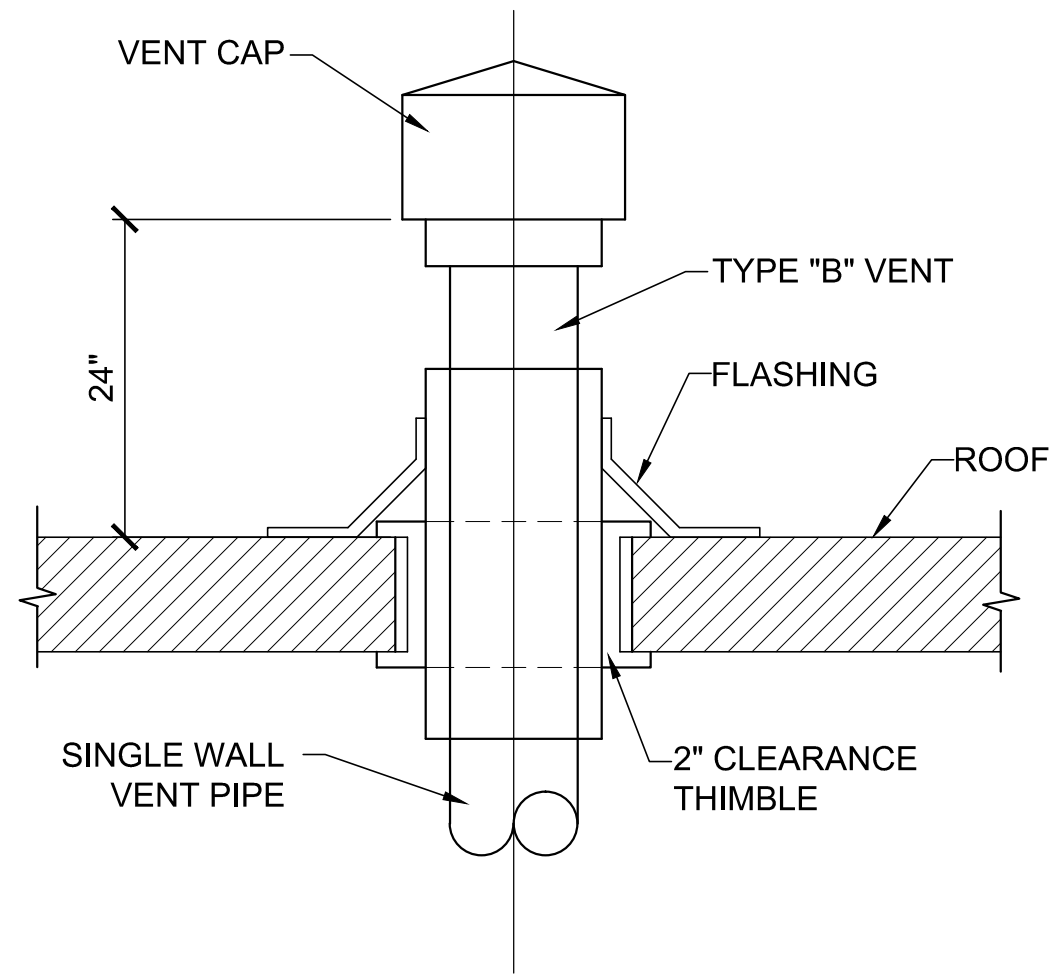
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$\frac{1}{4}'' = 1'-0''$

M-102

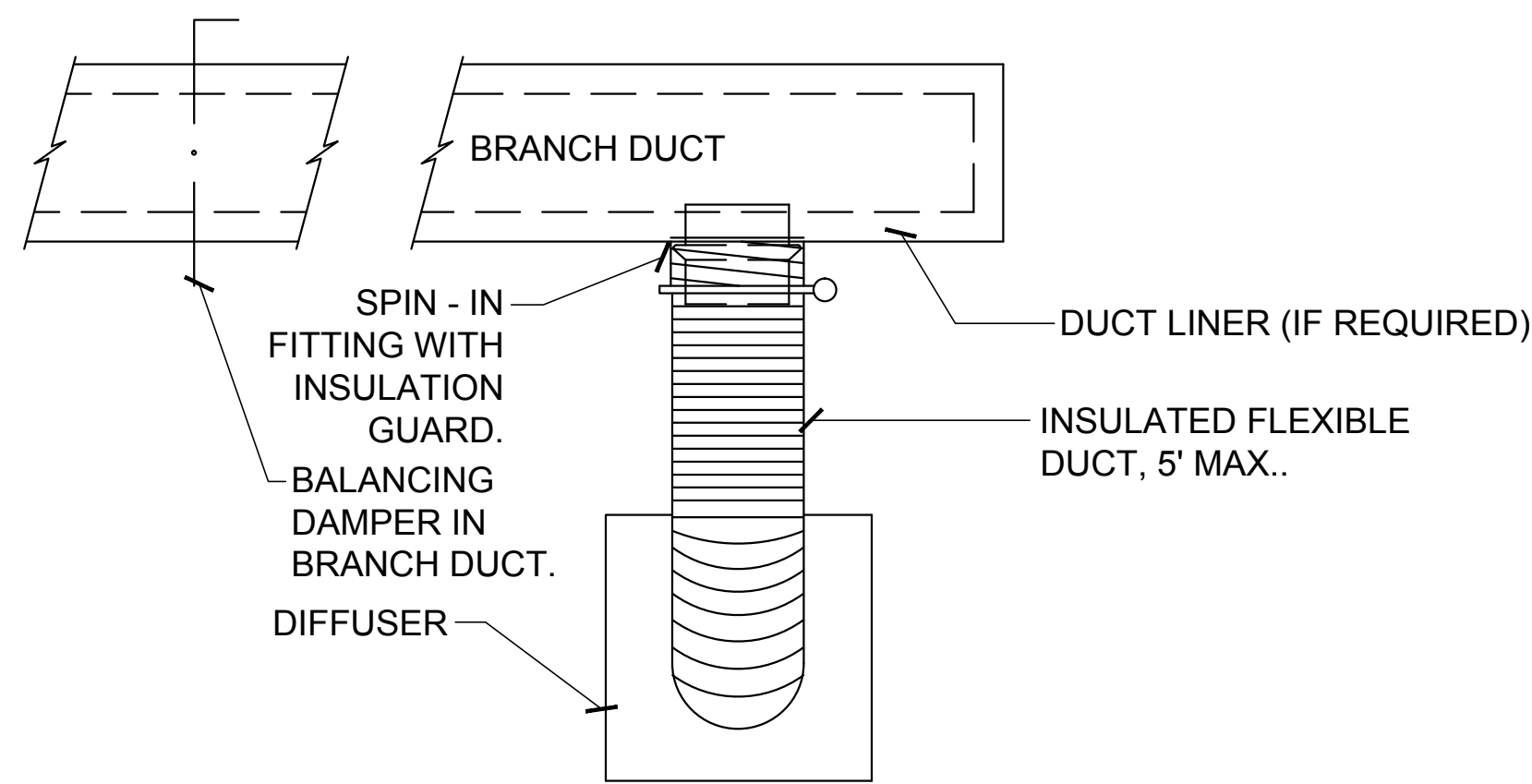
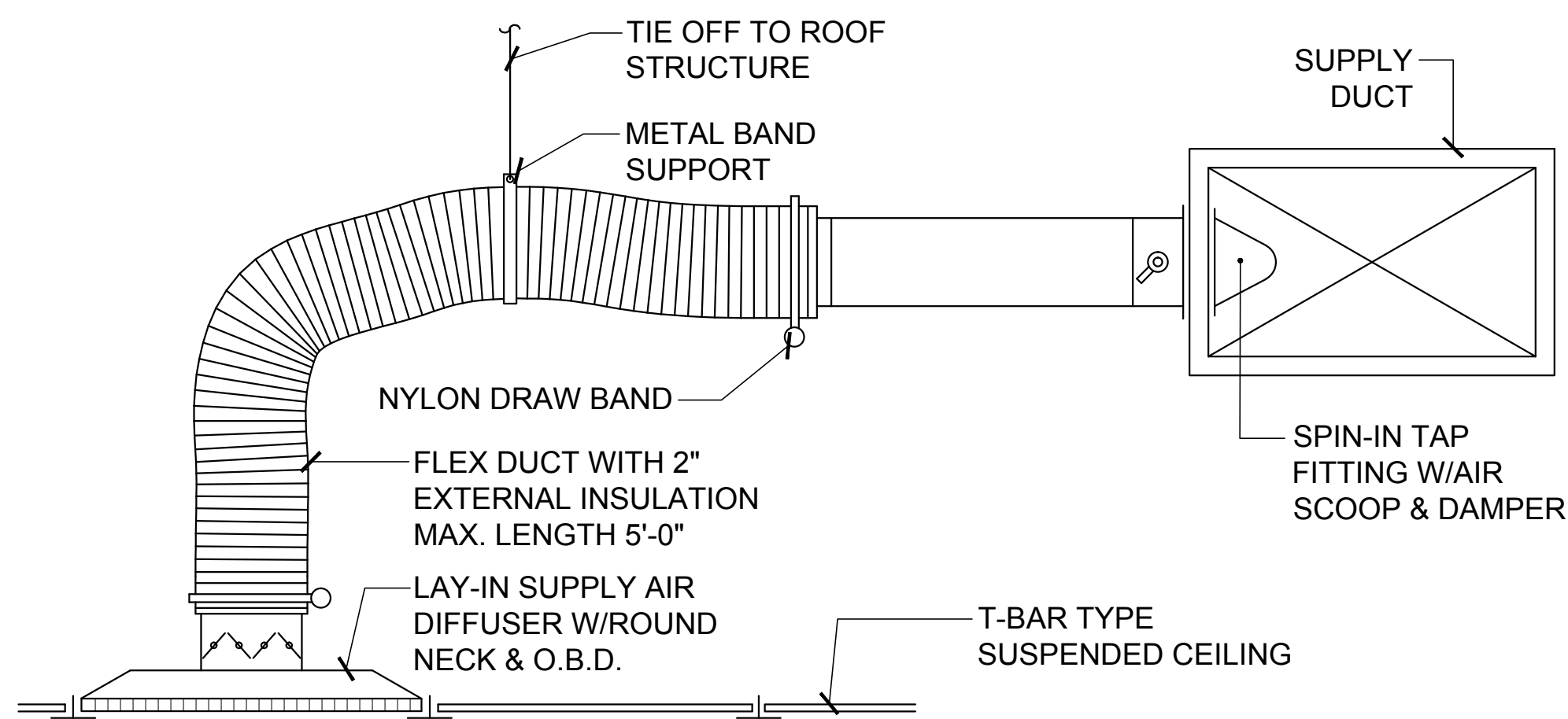


- a) Refer to Installation, Operation and Service Manual for proper design.
b) Type "B" vent materials must be used outdoors.
c) An insulating thimble (P/N 90505600) is required to pass through combustible structures.
d) 4" (10 cm) O.D. vent pipe, maximum 45 ft.(13.7m) in length may be used as shown above with an approved vent cap (P/N 90502300). NOTE: Condensate may develop when long vent pipes are used. It is recommended that the pipe length should be less than 20' (6m).
e)When heater extension packages are used, they directly effect maximum vent length. Refer to Installation, Operation and Service Manual for requirements.

1 WATER HEATER FLUE DETAIL
Scale: N.T.S.

2 ROOF EXHAUSTER DETAIL
Scale: N.T.S.

3 HEAT PUMP DETAIL
Scale: N.T.S.



4 SUPPLY AIR DIFFUSER DETAIL
Scale: N.T.S.

5 SUPPLY AIR DIFFUSER DETAIL
Scale: N.T.S.

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MECHANICAL
DETAILS

SHEET:
M-501

DATE: 6.17.13
REVISION:

FILE NAME: Cerro Gordo

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EQUIPMENT SCHEDULE															
SYMBOL		DESCRIPTION					SYMBOL		DESCRIPTION						
EX-1		CEILING EXHAUSTER: CEILING MOUNTED SUPER-QUIET EXHAUST FAN; ALUMINUM BACKDRAFT DAMPER; EMBOSSED GALVANIZED STEEL HOUSING; STATIC AND DYNAMICALLY BALANCED CENTRIFUGAL BLOWER; HOODED WALL CAP WITH BIRDSCREEN; CEILING GRILLE. MODEL NUMBERS ARE GREENHECK. CAPACITIES ARE FOR SEA LEVEL.					EXB-1		ELECTRIC BASEBOARD HEATER: COLD FORMED PRE-PAINTED STEEL COVER; ALUMINUM FINNED, STEEL TUBULAR HEATING ELEMENT. MODEL NO. IS QMARK. PROVIDE WITH BERKO M601W WALL MOUNTED LINE VOLTAGE SPST THERMOSTAT.						
		SYMBOL	MODEL	CFM	ESP	AMPS	VAC/P/HZ			SYMBOL	MODEL NO.	TOTAL WATTS	LENGTH	VOLTS	AMPS
		EX-1	SP-A50	51	0.125"	0.50	120/1/60			EXB-1	QMK2514W	1000	48"	120	8.3
RH-1		RANGE HOOD: STAINLESS STEEL; TWO POSITION LIGHT; RESILIENT VIBRATION ISOLATION MOTOR MOUNTS; 2 SPEED CENTRIFUGAL FAN; DISHWASHER SAFE ALUMINUM FILTERS; DUCT CONNECTOR WITH BUILT IN DAMPER; FRONT CONTROLS; ENERGY STAR RATING. MODEL NUMBER IS BROAN.													
		SYMBOL	MODEL #	WIDTH	CFM	VAC/P/HZ	AMPS								
		RH-1	QDE30SS	30"	280	120/1/60	1.6								
HP-1 HP-2 HP-3		HEAT PUMP: OUTDOOR HEAT PUMP; 2 STAGE SCROLL COMPRESSOR; INTERNAL PRESSURE RELIEF VALVE; INTERNAL THERMAL OVERLOAD; HIGH PRESUURE SWITCH; LOSS OF CHARGE SWITCH; FILTER DRIER; LOW AMBIENT ACCESORY KIT; BAKED ON POWDER PAINT; DENSE WIRE COIL GUARD; CRANK CASE HEATER. MODEL NO. IS CARRIER.													
		SYMBOL	MODEL NO.	COOLING BTUH	HEATING BTUH	WEIGHT LBS	VAC/P/HZ MCA								
		HP-1	25HCA624A0030	24,000	15,300@17°F	257	208/230/1/60 16.2								
		HP-2	25HCA636A0030	36,000	22,600@17°F	269	208/230/1/60 23.7								
		HP-3	25HCA648A0030	48,000	29,200@17°F	295	208/230/1/60 29.8								
FC-1 FC-2 FC-3		FAN COIL: DX MULTIPOISE FAN COIL; SOLID STATE FAN CONTROL; 1-INCH INSULATION; MULTISPEED MOTOR FOR 2 STAGE COOLING AND CLG/HTG AIRFLOWS; PRE-PAINTED GALVANIZED STEEL CASING; METERING DEVICE AND CLEANABLE, PERMANENT FRAMED FILTER; FACTORY INSTALLED DISCONNECT; FIELD INSTALLED ELECTRICAL RESISTANCE AUXILIARY HEATER WITH INTERNAL CIRCUIT BREAKER HEATER PROTECTION. MODEL NO. IS CARRIER.													
		SYMBOL	MODEL NO.	CFM/SP CLG/HTG	COOLING BTUH	HEATING BTUH	BLOWER HP								
		FC-1	FV4CNF002005	875/0.5	24,000	15,300@17°F	1/2								
		FC-2	FV4CNF003005	1050/0.5	36,000	22,600@17°F	1/2								
		FC-3	FV4CNF003005	1400/0.5	48,000	20,200@°F	1/2								
		VAC/P/HZ	AUX. ELEC.												
		208/230/1/60	5 KW												
		208/230/1/60	5 KW												
		208/230/1/60	5 KW												
D-1 D-2 D-3 D-4		DIFFUSER: "TITUS" SUPPLY AIR GRILLE; MODEL 300RL; STEEL CONSTRUCTION; DOUBLE DEFLECTION; 3/4" BLADE SPACING; ADJUSTABLE BLADES PARALLEL TO LONG DIMENSION; OPPOSED BLADE DAMPER ADJUSTABLE THROUGH FACE; #26 WHITE FINISH.													
		SYMBOL	SIZE												
		D-1	6"X6"												
		D-2	8"X6"												
		D-3	10"X6"												
		D-4	12"X10												
RG-1 RG-2		RETURN GRILLE: TITUS RETURN GRILLE; MODEL 350RL FIXED BLADES AT 3/4" CENTERS PARALLEL TO LONG DIMENSION OF GRILLE; OPPOSED BLADE DAMPER OPERABLE FROM FACE OF GRILLE; FINISH #26 WHITE; ALL STEEL CONSTRUCTION.													
		SYMBOL	SIZE												
		RG-1	36"X36"												
		RG-2	18"X18"												
P-1		CONDENSATE PUMP: LOW PROFILE; VERTICAL TYPE PUMP; LEAK PROOF ABS TANK; 3/8" BARBED DISCHARGE; SAFETY SWITCH; 6' POWER CORD; UL/CSA LISTED; 20' SHUTOFF HEAD; STAINLESS STEEL MOTOR SHAFT. MODEL NO. IS LITTLE GIANT.													
		SYMBOL	MODEL NO.	CAPACITY	HP	VAC/P/HZ									
		P-1	VCC-20	80 GAL/HR	1/30	120/1/60									

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MECHANICAL
EQUIPMENT
SCHEDULE

SHEET:

M-601